



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/623,001	07/18/2003	Alexey S. Kabalnov	200209419-1	4124
22879	7590	02/24/2005		
HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400			EXAMINER KLEMANSKI, HELENE G	
			ART UNIT	PAPER NUMBER
			1755	

DATE MAILED: 02/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/623,001

Applicant(s)

KABALNOV ET AL.

Examiner

Helene Klemanski

Art Unit

1755

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-38 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-9, 12-16, 18-30 and 33-37 is/are rejected.
- 7) ☒ Claim(s) 10, 11, 17, 31, 32 and 38 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 7/18/03&12/3/04.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: ____.

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed December 3, 2004 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

Applicants should note that the examiner's copy of the application does not contain any of the foreign references cited in the above information disclosure statement. The examiner will consider these references if they are filed in response to this Office Action.

Claim Objections

2. Claims 1, 6-8, 22, 28 and 29 are objected to because of the following informalities: in claim 1, the second line after Formula 1, the phrase "and wherein" should be deleted; also in claim 1, the third line after Formula 1, the phrase "and wherein" should be deleted (both occurrences); lastly in claim 1, the fourth line after Formula 1, the term "wherein" should be deleted; in claim 6, line 2, the term "theyellow" should be replaced with the phrase "the yellow"; in claim 7, line 2, the term "DB199" should be replaced with the phrase "Direct Blue 199"; in claim 8, the first line after the formula, the term "SO₂NH-alkyl-OH₂" should be replaced with the term "SO₂NH-alkyl-OH"; in claim 22, the second line after Formula 1, the phrase "and wherein" should be

Art Unit: 1755

deleted; also in claim 22, the third line after Formula 1, the phrase "and wherein" should be deleted (both occurrences); lastly in claim 22, the fourth line after Formula 1, the term "wherein" should be deleted; in claim 28, line 2, the term "DB199" should be replaced with the phrase "Direct Blue 199" and in claim 29, the first line after the formula, the term "SO₂NH-alkyl-OH₂" should be replaced with the term "SO₂NH-alkyl-OH". Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 4 and 25 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for (1) a cyan colorant further comprising Acid Blue 9 dye blended with the phthalocyanine dye and (2) a cyan ink-jet ink further comprising Acid Blue 9 dye admixed in the first ink vehicle, does not reasonably provide enablement for (1) a cyan colorant further comprising a cyan triarylmethine dye blended with the phthalocyanine dye in claim 4 and (2) a cyan ink-jet ink further comprising a cyan azo dye admixed in the first ink vehicle in claim 25. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make the invention commensurate in scope with these claims.

With respect to claim 4, the claim recites that a cyan triarylmethine dye is blended with the phthalocyanine dye. This encompasses any cyan triarylmethine dye.

Art Unit: 1755

However, the specification only teaches the use of Acid Blue 9. Such a limited disclosure does not support the breadth of the instant claims. The examiner suggests the deletion of the phrase "a cyan triarylmethine dye" and the incorporation of "Acid Blue 9" in its place to overcome this rejection. Accordingly, claim 13 should be canceled if applicants make the above change as suggested by the examiner.

With respect to claim 25, the claim recites that a cyan azo dye is admixed in the first in vehicle with the phthalocyanine dye. This encompasses any cyan azo dye. However, the specification only teaches the use of Acid Blue 9. Such a limited disclosure does not support the breadth of the instant claims. The examiner suggests the deletion of the phrase "a cyan azo dye" and the incorporation of "Acid Blue 9" in its place to overcome this rejection. Accordingly, claim 34 should be canceled if applicants make the above change as suggested by the examiner.

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claim 34 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 34, line 1, the phrase "the cyan triarylmethine dye" appears to lack antecedent basis in claim 25. The examiner suggests the deletion of this claim in view of the above 112, first paragraph, rejection.

Claim Rejections - 35 USC § 102

Art Unit: 1755

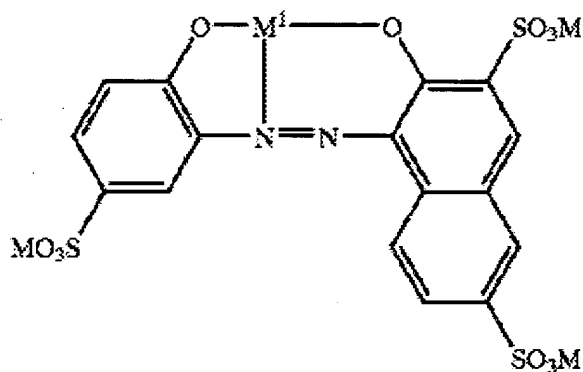
7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

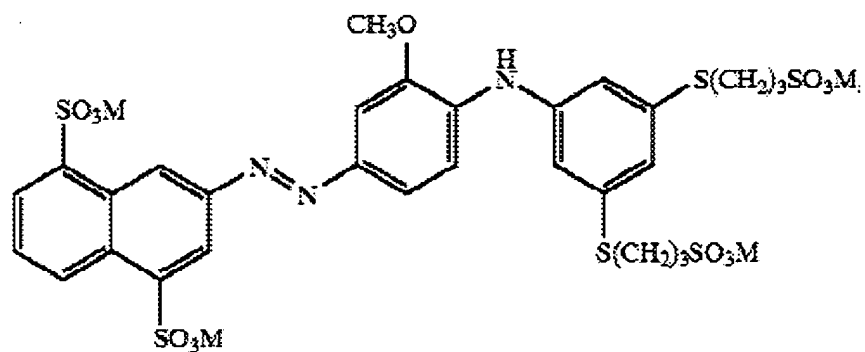
8. Claims 1-9, 12-16, 18-30 and 33-37 are rejected under 35 U.S.C. 102(e) as being anticipated by Zimmer et al.

Zimmer et al. teach a dye set comprising (1) a magenta dye set comprising a xanthene dye (i.e. rhodamine dye) such as Acid Red 52, Acid Red 289 or mixtures thereof and a metallized azo dye of the formula

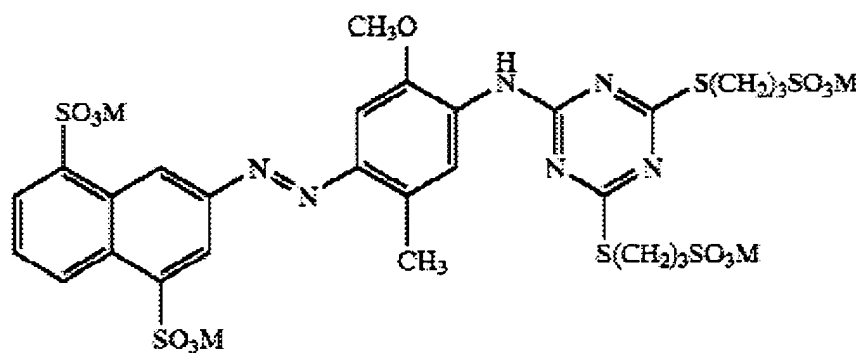


wherein M^I is Cu, Ni, Fe or Cr and M is H, Na, Li, K or an ammonium ion such as Reactive Red 23 in a weight ratio of xanthene dye to metalized azo dye of from about 1:10 to 1:1; (2) at least one yellow dye selected from Acid Yellow 17, Acid Yellow 23, Direct Yellow 132, a dye of the formula

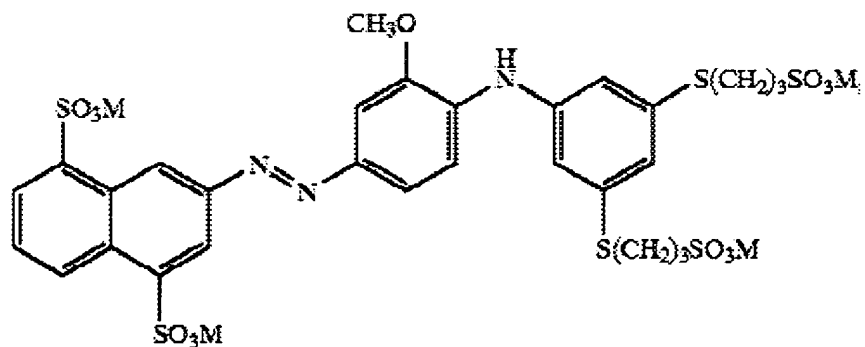
Art Unit: 1755



and a dye of the formula

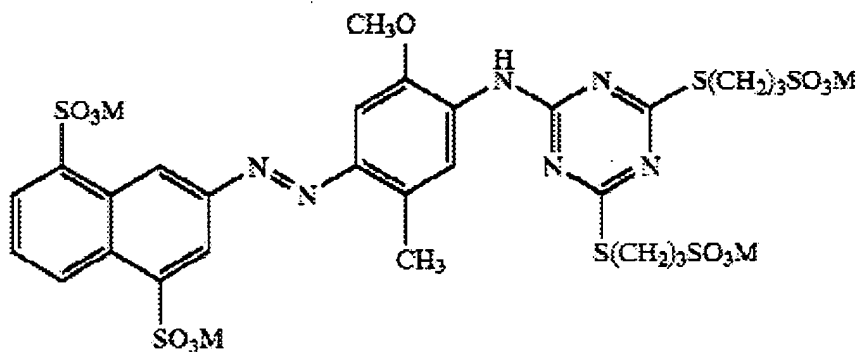


wherein M is H, Na, Li, K or an ammonium ion and (3) at least one cyan dye selected from the group consisting of Direct Blue 199, Acid Blue 9 and mixtures thereof. The yellow dye can be a mixture of Acid Yellow 17 or Acid Yellow 23 in combination with Direct Yellow 132, a dye of the formula

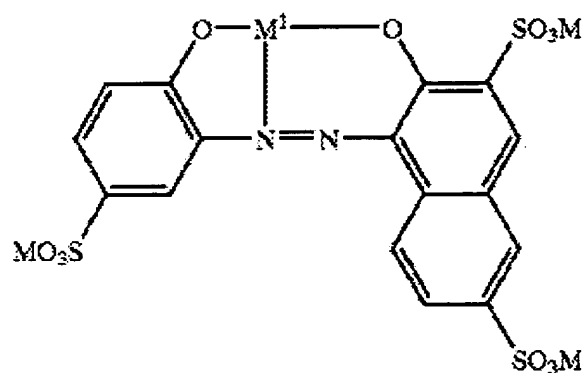


Art Unit: 1755

or a dye of the formula

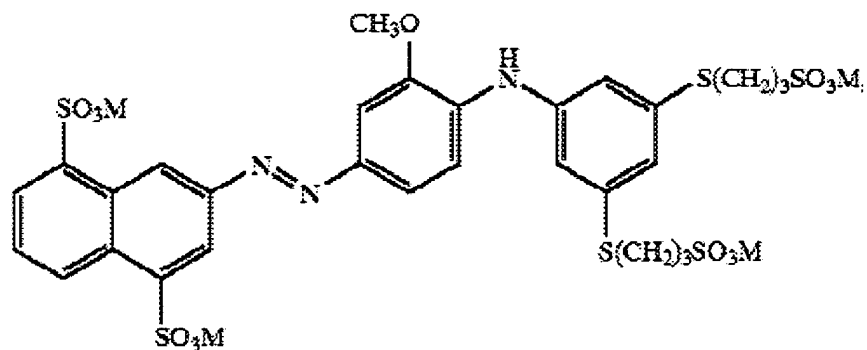


wherein M is H, Na, Li, K or an ammonium ion. Zimmer et al. further teach an ink jet ink set comprising a magenta ink comprising from about 0-2% by weight of a xanthene dye (i.e. rhodamine dye) such as Acid Red 52, Acid Red 289 or mixtures thereof and 2-4% by weight of a metalized azo dye of the formula

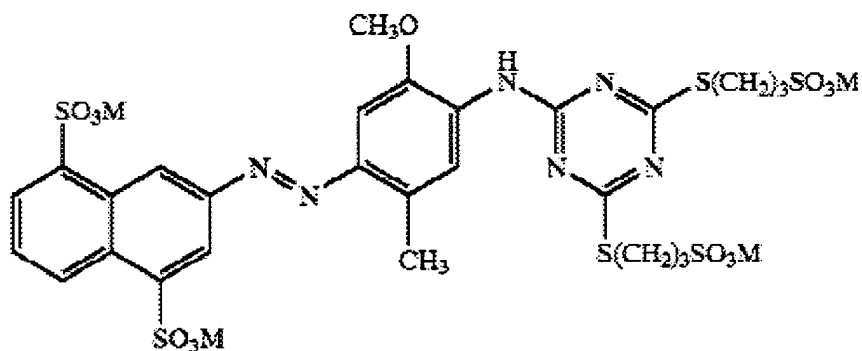


wherein M^1 is Cu, Ni, Fe or Cr and M is H, Na, Li, K or an ammonium ion such as Reactive Red 23 in a weight ratio of xanthene dye to metalized azo dye of from about 1:10 to 1:1 and an ink vehicle; (2) a yellow ink comprising 0.05-20% by weight of at least one yellow dye selected from Acid Yellow 17, Acid Yellow 23, Direct Yellow 132, a dye of the formula

Art Unit: 1755

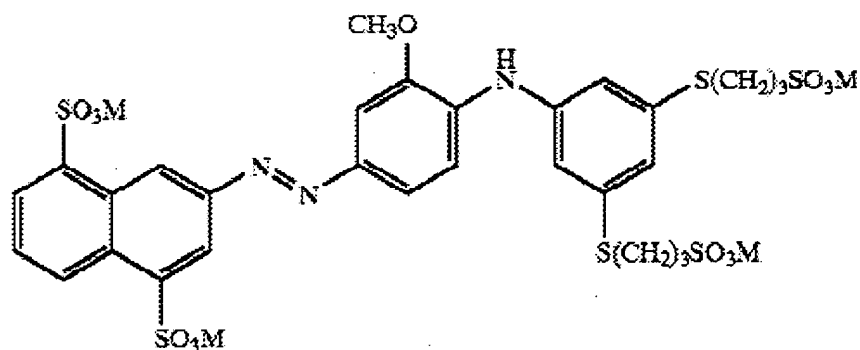


and a dye of the formula

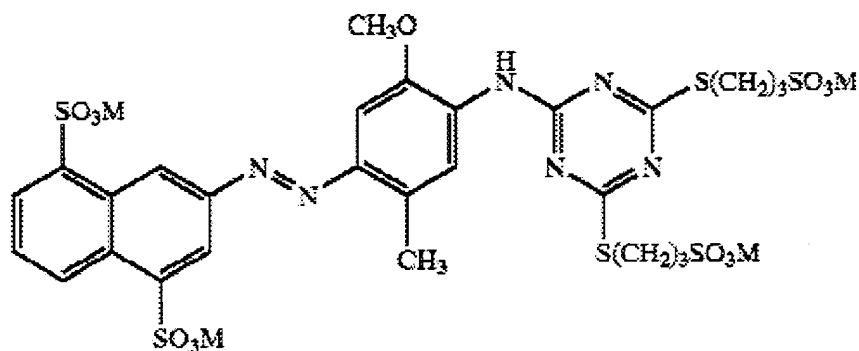


wherein M is H, Na, Li, K or an ammonium ion and an ink vehicle and (3) a cyan ink comprising 0.05-20% by weight of at least one cyan dye selected from the group consisting of Direct Blue 199, Acid Blue 9 and mixtures thereof and an ink vehicle. The yellow dye can be a mixture of Acid Yellow 17 or Acid Yellow 23 in combination with Direct Yellow 132, a dye of the formula

Art Unit: 1755



or a dye of the formula



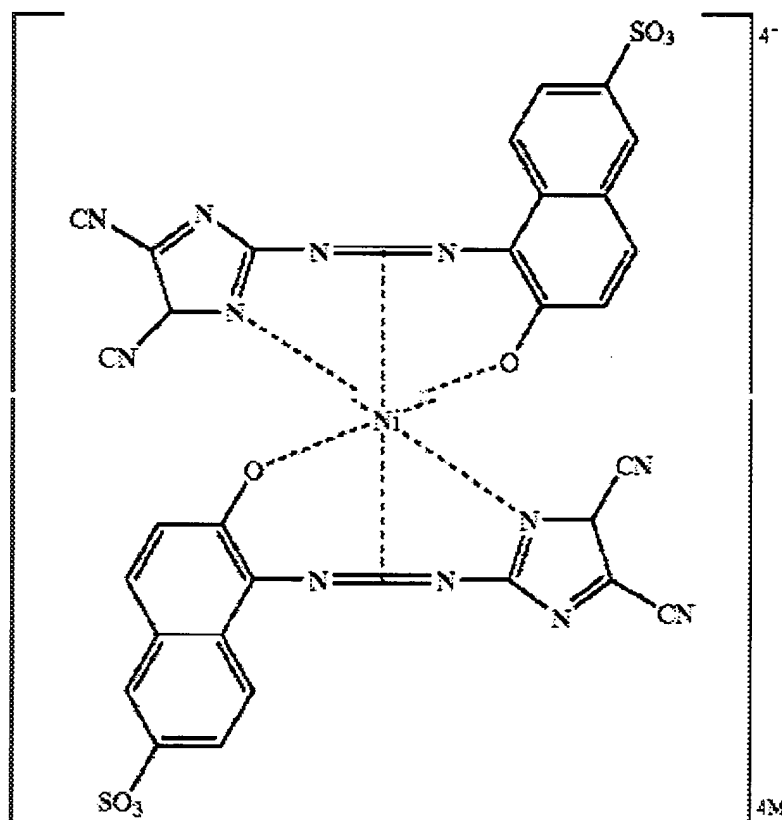
M is H, Na, Li, K or an ammonium ion. See col. 1, line 60 – col. 2, line 26, col. 2, line 65 – col. 3, line 30, col. 3, line 64 – col. 4, line 27, col. 4, line 50 – col. 6, line 60, col. 7, line 30 – col. 8, line 65, col. 11, lines 34-39, col. 12, lines 44-49, col. 13, lines 8-53, examples 1-3 and claims 3-8, 12-19 and 24. The dye set and ink jet ink set as taught by Zimmer et al. appears to anticipate the present claims.

Allowable Subject Matter

9. Claims 10, 11, 17, 31, 32 and 38 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Art Unit: 1755

10. The following is a statement of reasons for the indication of allowable subject matter: Zimmer et al. fail to teach or fairly suggest: (1) a dye set or an ink jet ink set wherein the copper- or nickel-containing azo dye comprises a nickel metalized naphthol azo triazole or a dye of the formula



wherein M is H or a monovalent ion or (2) a dye set or an ink jet ink set wherein the copper- or nickel-containing azo dye is at least two copper- or nickel-containing azo dyes blended together as claimed by applicants.

Art Unit: 1755

Conclusion

The remaining references listed on forms 892 and 1449 have been reviewed by the examiner and are considered to be cumulative to or less material than the prior art references relied upon in the above rejections.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Helene Klemanski whose telephone number is (571) 272-1370. The examiner can normally be reached on Monday-Friday 5:30-2:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on (571) 272-1233. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Helene Klemanski
Primary Examiner
Art Unit 1755


HK

February 22, 2005